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aag aac atg gcc agc cac ccc gtg agc ctg cac gcc gtg ggc gtg agc gtg Lys Asn Met 110

tac tgg aag gcc agc gag ggc gcc gag tac gac gac cag acc agc cag Tyr Trp Lys Ala Ser Glu Gly Ala Glu Tyr Asp Asp Gln Thr Ser Gln 130

cgc gag aag gag gac gac aag gtg ttc ccc ggc ggc agc cac acc tac Asg Glu Lys Glu Asp Asp Lys Val Phe Pro Gly Gly Ser His Thr Tyr 155

	gtg Val	tgg Trp	cag Gln	gtg Val	ctg Leu 160	aag Lys	gag Glu	aac Asn	ggc Gly	ccc Pro 165	atg Met	gcc Ala	agc Ser	gac Asp	ccc Pro 170	ctg Leu	531	
	tgc Cys	ctg Leu	acc Thr	tac Tyr 175	agc Ser	tac Tyr	ctg Leu	agc Ser	cac His 180	gtg Val	gac Asp	ctg Leu	gtg Val	aag Lys 185	gac Asp	ctg Leu	579	
	aac Asn	agc Ser	ggc Gly 190	ctg Leu	atc Ile	ggc Gly	gcc Ala	ctg Leu 195	ctg Leu	gtg Val	Cya Cya	cgc Arg	gag Glu 200	ggc Gly	agc Ser	ctg Leu	627	
	gcc Ala	aag Lys 205	gag Glu	aag Lys	acc Thr	cag Gln	acc Thr 210	ctg Leu	cac His	aag Lys	ttc Phe	atc Ile 215	ctg Leu	ctg Leu	ttc Phe	gcc Ala	675	
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	Met	Gln	Asp	Arg	Asp 240	gcc Ala	Ala	Ser	Ala	Arg 245	Ala	Trp	Pro	ràa	250	HIS	771	
	acc Thr	gtg Val	aac Asn	ggc Gly 255	tac Tyr	gtg Val	aac Asn	cgc Arg	agc Ser 260	ctg Leu	ccc Pro	ggc Gly	ctg <u>Leu</u>	atc Ile 265	ggc Gly	tgc Cys	819	
	cac His	cgc Arg	aag Lys 270	agc Ser	gtg Val	tac Tyr	tgg Trp	cac His 275	gtg Val	atc Ile	ggc Gly	atg Met	ggc Gly 280	acc Thr	acc Thr	ccc Pro	867	
	Glu	Val 285	His	Ser	Ile	ttc Phe	Leu 290	Glu	GIĀ	His	Tnr	295	Leu	vai	Arg	ASI	915	
• **	His 300	Arg	Gln	Ala	Ser	ctg Leu 305	Glu	Ile	Ser	Pro	310	THE	Pne	Leu	Int	315	963	
	cag Gln	acc Thr	ctg Leu	ctg Leu	atg Met 320	gac Asp	ctg Leu	ggc Gly	cag Gln	ttc Phe 325	ctg Leu	ctg Leu	ttc Phe	tgc Cys	cac His 330	atc Ile	1011	
	agc Ser	agc Ser	cac His	cag Gln 335	cac His	gac Asp	ggc Gly	atg Met	gag Glu 340	Ala	tac Tyr	gtg Val	aag Lys	gtg Val 345	gac Asp	agc Ser	1059	
	tgc Cya	ccc Pro	gag Glu 350	gag Glu	ccc Pro	cag Gln	ctg Leu	cgc Arg 355	atg Met	aag Lys	aac Asn	aac Asn	gag Glu 360	GIU	gcc Ala	gag Glu	1107	
	gac Asp	tac Tyr 365	Asp	gac Asp	gac Asp	ctg Leu	acc Thr 370	gac Asp	agc Ser	gag Glu	atg Met	gac Asp 375	Vai	gtg Val	ege Arg	ttc Phe	1155	
	gac Asp 380	Asp	gac Asp	aac Asn	agc Ser	ccc Pro 385	agc Ser	ttc Phe	atc Ile	cag Gln	atc Ile 390	Arg	agc Ser	gtg Val	gcc Ala	aag Lys 395	1203	
	aag Lys	cac His	ccc Pro	aag Lys	acc	tgg Trp	gtg Val	cac His	tac Tyr	atc Ile	gcc Ala	gcc Ala	gag Glu	gag Glu	gag Glu	gac Asp	1251	

tgg (Trp)	gac Asp	Tyr .	gcc Ala 415	ccc Pro	ctg Leu	gtg Val	ctg Leu	gcc Ala 420	ccc Pro	gac Asp	gac Asp	cgc A rg	agc Ser 425	tac Tyr	aag Lys	1299
agc (Gln	tac Tyr 430	ctg Leu	aac Asn	aac Asn	ggc Gly	ccc Pro 435	cag Gln	cgc Arg	atc Ile	ggc Gly	cgc Arg 440	aag Lys	tac Tyr	aag Lys	1347
aag Lys	gtg Val 445	cgc Arg	ttc Phe	atg Met	gcc Ala	tac Tyr 450	acc Thr	gac Asp	gag Glu	acc Thr	ttc Phe 455	aag Lys	acc Thr	cgc Arg	gag Glu	1395
gcc Ala 460	atc Ile	cag Gln	cac His	gag Glu	agc Ser 465	ggc Gly	atc Ile	ctg Leu	ggc Gly	ccc Pro 470	ctg Leu	ctg Leu	tac Tyr	ggc Gly	gag Glu 475	1443
gtg Val	ggc Gly	gac Asp	acc Thr	ctg Leu 480	ctg Leu	atc Ile	atc Ile	ttc Phe	aag Lys 485	aac Asn	cag Gln	gcc Ala	agc Ser	cgc Arg 490	ccc Pro	1491
tac Tyr	aac Asn	atc Ile	tac Tyr 495	ccc Pro	cac His	ggc Gly	atc Ile	acc Thr 500	gac Asp	gtg Val	cgc Arg	ccc Pro	ctg Leu 505	tac Tyr :	agc Ser	1539
cgc A rg	cgc Arg	ctg Leu 510	ccc Pro	aag Lys	ggc Gly	gtg Val	aag Lys 515	cac His	ctg Leu	aag Lyg	gac Asp	ttc Phe 520	ccc Pro	atc Ile	ctg Leu	1587
ccc Pro	ggc Gly 525	gag Glu	atc Ile	ttc Phe	aag Lys	tac Tyr 530	aag Lys	tgg Trp	acc Thr	gtg Val	acc Thr 535		gag Glu	gac Asp	ggc Gly	1635
ccc Pro 540	acc Thr	aag Lys	agc Ser	gac Asp	ccc Pro 545	cgc Arg	tgc Cys	ctg Leu	acc Thr	cgc Arg 550	-1-	tac Tyr	ago Ser	ago Ser	ttc Phe 555	1683
gtg Val	aac Asn	atg Met	g a g Glu	cgc Arg 560	Asp	ctg Leu	gcc	agc Ser	ggc Gly 565	200	ato	ggc Gly	Pro	teto 570	ctg Leu	1731
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tgg Trp	tac Tyr 605	Leu	acc Thr	gaq Glu	g aac 1 Asr	ato 1116 610	e GII	g cgo	tto Phe	c cto	g ccc i Pro 61		c cc	c gc	ggc Gly	1875
Val 620	Glr	ı Lev	ı Glu	ı Ası	625	5	1 Pin	2 G1/	.1 75.	630	0				c agc s Ser 635	1923
ato Ile	aac Asr	gg¢ Gly	tac Tyl	gto Va. 640	i Pue	e gad e Asj	c ago p Se	c cto r Le	g ca u Gl 64		g ag u Se	c gt r Va	g tg 1 Cy	c ct s Le 65	g cac u His O	1971
g a g Glu	g gto val	g gco	tac a Ty	tg r Tr	g tao p Ty:	c ate	c ct e Le	g ag u Se	c at r Il	c gg e Gl	c gc y A l	c ca a Gl	g ac n Th	c ga r As	c ttc p Phe	2019

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gag Glu	gac Asp 685	acc Thr	ctg Leu	acc Thr	ctg Leu	ttc Phe 690	ccc Pro	ttc Phe	agc Ser	ggc Gly	gag Glu 695	acc Thr	gtg Val	ttc Phe	atg Met	2115
agc Ser 700	atg Met	gag Glu	aac Asn	ccc Pro	ggc Gly 705	ctg Leu	tgg Trp	atc Ile	ctg Leu	ggc Gly 710	tgc Cys	cac His	aac Asn	agc Ser	gac Asp 715	2163
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tac Tyr	ctg Leu	ctg Leu 750	agc Ser	aag Lys	aac Asn	aac Asn	gcc Ala 755	atc Ile	gag Glu	ccc Pro	cgc A rg	agg Arg 760	cgc Arg	agg Arg	cgc Arg	2307
gag Glu	atc Ile 765	acc Thr	cgc Arg	acc Thr	acc Thr	ctg Leu 770	cag Gln	agc Ser	gac Asp	cag Gln	gag Glu 775	gag Glu	atc Ile	gac Asp	tac Tyr	2355
gac Asp 780	gac Asp	acc Thr	atc Ile	agc Ser	gtg Val 785	gag Glu	atg Met	aag Lys	aag Lys	gag Glu 790	gac Asp	ttc Phe	gac Asp	atc Ile	tac Tyr 795	2403
gac Asp	gag Glu	gac Asp	gag Glu	aac Asn 800	GIn	agc Ser	ccc Pro	cgc Arg	agc Ser 805	FILE	cag Gln	aag Lys	aag Lys	acc Thr 810	cgc Arg	2451
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cag Gln	ttc Phe 845	. Lya	aag Lys	g gtg Val	gtg Val	tto Phe 850	GIN	gag Glu	tto Phe	acc Thr	gac Asp 855	, 61	ago Ser	tto Phe	acc Thr	2595
cag Gln 860	Pro	ctg Leu	tac Tyr	cgo Arg	ggc Gly 865	GIU	rctg Leu	aac Asr	gaç Glu	7 cac His 870	, nec	g ggo i Gly	ctq Y Lev	g cto 1 Lev	ggc Gly 875	2643
ccc Pro	tac Tyr	ato Ile	cgc Arg	g gcc g Ala 880	GIU	g gto Val	g gag Glu	gad Asp	2 aa0 2 As1 889	1 114	atq e Met	g gto Val	g aco	tto Phe 890	cgc Arg	2691
aac Asr	caq Glr	g gco n Ala	age a Sei 899	r Arq	c ccc g Pro	tac Ty	ago Sei	Phe 900	= T A 1	c ago	c ago	c cto	g ato u Ilo 90		tac Tyr	2739
g a g Glu	g gaq ı Gli	g gad 1 Asi	caq Gli	g cgo	caq Glr	g ggo n Gly	gco y Ala	gaq a Gli	g cc	c cg	c aa g Ly	g aa s As	c tt n Ph	c gto e Va	g aag l Lys	2787

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gtg gac ctg gag aag Val Asp Leu Glu Lys 960	Asp Val Hi	c agc ggc ctg s Ser Gly Leu 965	atc ggc ccc ctg Ile Gly Pro Leu 970	ctg 2931 Leu
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gtg cag gag ttc gcc Val Gln Glu Phe Ala 990	. Leu Phe Ph	cc acc atc ttc ne Thr Ile Phe 195	gac gag acc aag Asp Glu Thr Lys 1000	agc 3027 Ser
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gac cag cgc atc cgc	tgg tac ct	to cto age atg	ggc agc aac gag	aac 3219
Asp Gln Arg Ile Arg 1055	Trp Tyr Le	eu Leu Ser Met 1060	Gly Ser Asn Glu 1065	Asn
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atc cac agc atc cac Ile His Ser Ile His 1070 gag gag tac aag atc Glu Glu Tyr Lys Mer 1085 acc gtg gag atg ct Thr Val Glu Met Le 1100 ctg atc ggc gag ca Leu Ile Gly Glu Hi	g ttc agc gg s Phe Ser Gl gcc ctg ta 1090 gccc agc aa 1 Pro Ser Ly 1105 gctg cac gg	gc cac gtg ttc 1060 gc cac gtg ttc ly His Val Phe 075 ac aac ctg tac yr Asn Leu Tyr ag gcc ggc atc ys Ala Gly Ile 111 cc ggc atg agc la Gly Met Ser 1125	acc gtg cgc aag Thr Val Arg Lys 1080 ccc ggc gtg ttc Pro Gly Val Phe 1095 tgg cgc gtg gag Trp Arg Val Glu 0 acc ctg ttc ctg Thr Leu Phe Leu 113	aag 3267 Lys 3315 Glu 3363 Cys 1115 gtg 3411 Val 0
atc cac agc atc cac Ile His Ser Ile His 1070 gag gag tac aag atc Glu Glu Tyr Lys Mer 1085 acc gtg gag atg ct Thr Val Glu Met Le 1100 ctg atc ggc gag ca Leu Ile Gly Glu Hi tac agc aac aag tg Tyr Ser Asn Lys Cy	ttc agc gg a Phe Ser Gi ggcc ctg ta 1090 gccc agc aa 1 Pro Ser Ly 1105 cctg cac gc s Leu His A	gc cac gtg ttc 1060 gc cac gtg ttc ly His Val Phe 075 ac aac ctg tac yr Asn Leu Tyr ag gcc ggc atc ys Ala Gly Ile 111 cc ggc atg agc la Gly Met Ser 1125 cc ctg ggc atg ro Leu Gly Met 1140	acc gtg cgc aag Thr Val Arg Lys 1080 ccc ggc gtg ttc Pro Gly Val Phe 1095 tgg cgc gtg gag Trp Arg Val Glu acc ctg ttc ctg Thr Leu Phe Leu 113 gcc agc ggc cac Ala Ser Gly His 1145	aag 3267 Lys 3315 Glu 3363 Cys 1115 gtg 3411 Val 3459 Ile 3507

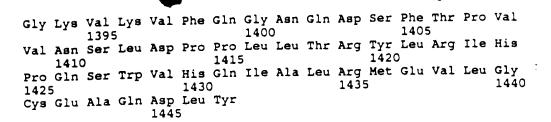
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cag acc tac Gln Thr Tyr 123	Arg Gly	aac agc Asn Ser	acc ggc Thr Gly 1235	acc ctg Thr Leu	atg gtg Met Val 1240	Pile File	ggc Gly	3747
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acc ctg cgc Thr Leu Arg	atg gag Met Glu 128	Leu Met	ggc tgc Gly Cys	gac ctg Asp Leu 1285	aac agc Asn Ser	tgc ago Cys Ser 129	115.6	3891
ccc ctg ggo Pro Leu Gly	atg gag Met Glu 1295	agc aag Ser Lys	gcc atc Ala Ile 130	Ser Asp	gcc cag Ala Gln	atc acc Ile Thr 1305	gcc Ala	3939
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aac ccc aac Asn Pro Lys	gag tgg	cta cao						
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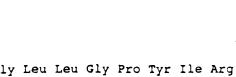
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Lys Met His Thr Val Asn Gly Tyr Val Asn Arg Ser Leu Pro Gly Leu Ile Gly Cys His Arg Lys Ser Val Tyr Trp His Val Ile Gly Met Gly Thr Thr Pro Glu Val His Ser Ile Phe Leu Glu Gly His Thr Phe Leu Val Arg Asn His Arg Gln Ala Ser Leu Glu Ile Ser Pro Ile Thr Phe Leu Thr Ala Gln Thr Leu Leu Met Asp Leu Gly Gln Phe Leu Leu Phe Cys His Ile Ser Ser His Gln His Asp Gly Met Glu Ala Tyr Val Lys Val Asp Ser Cys Pro Glu Glu Pro Gln Leu Arg Met Lys Asn Asn Glu Glu Ala Glu Asp Tyr Asp Asp Asp Leu Thr Asp Ser Glu Met Asp Val Val Arg Phe Asp Asp Asp Asn Ser Pro Ser Phe Ile Gln Ile Arg Ser Val Ala Lys Lys His Pro Lys Thr Trp Val His Tyr Ile Ala Ala Glu Glu Glu Asp Trp Asp Tyr Ala Pro Leu Val Leu Ala Pro Asp Asp Arg Ser Tyr Lys Ser Gln Tyr Leu Asn Asn Gly Pro Gln Arg Ile Gly Arg Lys Tyr Lys Lys Val Arg Phe Met Ala Tyr Thr Asp Glu Thr Phe Lys Thr Arg Glu Ala Ile Gln His Glu Ser Gly Ile Leu Gly Pro Leu Leu Tyr Gly Glu Val Gly Asp Thr Leu Leu Ile Ile Phe Lys Asn Gln Ala Ser Arg Pro Tyr Asn Ile Tyr Pro His Gly Ile Thr Asp Val Arg Pro Leu Tyr Ser Arg Arg Leu Pro Lys Gly Val Lys His Leu Lys Asp Phe Pro Ile Leu Pro Gly Glu Ile Phe Lys Tyr Lys Trp Thr Val Thr Val Glu Asp Gly Pro Thr Lys Ser Asp Pro Arg Cys Leu Thr Arg Tyr Tyr Ser Ser Phe Val Asn Met Glu Arg Asp Leu Ala Ser Gly Leu Ile Gly Pro Leu Leu Ile Cys Tyr Lys Glu Ser Val Asp Gln Arg Gly Asn Gln Ile Met Ser Asp Lys Arg Asn Val Ile Leu Phe Ser Val Phe Asp Glu Asn Arg Ser Trp Tyr Leu Thr Glu Asn Ile Gln Arg Phe Leu Pro Asn Pro Ala Gly Val Gln Leu Glu Asp Pro Glu Phe Gln Ala Ser Asn Ile Met His Ser Ile Asn Gly Tyr Val Phe Asp Ser Leu Gln Leu Ser Val Cys Leu His Glu Val Ala Tyr Trp Tyr Ile Leu Ser Ile Gly Ala Gln Thr Asp Phe Leu Ser Val Phe Phe Ser Gly Tyr Thr Phe Lys His Lys Met Val Tyr Glu Asp Thr Leu Thr Leu Phe Pro Phe Ser Gly Glu Thr Val Phe Met Ser Met Glu Asn Pro Gly Leu Trp Ile Leu Gly Cys His Asn Ser Asp Phe Arg Asn Arg Gly Met Thr Ala Leu Leu Lys Val Ser Ser Cys Asp Lys Asn Thr Gly Asp Tyr Tyr Glu Asp Ser Tyr Glu Asp Ile Ser Ala Tyr Leu Leu Ser Lys Asn Asn Ala Ile Glu Pro Arg Arg Arg Arg Glu Ile Thr Arg Thr Thr Leu Gln Ser Asp Gln Glu Glu Ile Asp Tyr Asp Asp Thr Ile Ser Val Glu Met Lys Lys Glu Asp Phe Asp Ile Tyr Asp Glu Asp Glu Asn Gln Ser Pro Arg Ser Phe Gln Lys Lys Thr Arg His Tyr Phe Ile Ala Ala Val Glu Arg Leu Trp Asp Tyr Gly Met Ser Ser Pro His Val Leu Arg Asn Arg Ala Gln Ser Gly Ser Val Pro Gln Phe Lys Lys Val Val Phe Gln Glu Phe Thr Asp Gly Ser Phe Thr Gln Pro Leu Tyr Arg Gly Glu Leu Asn Glu His Leu Gly Leu Leu Gly Pro Tyr Ile Arg Ala Glu Val Glu Asp Asn Ile Met Val Thr Phe Arg Asn Gln Ala Ser Arg Pro Tyr Ser Phe Tyr Ser Ser Leu Ile Ser Tyr Glu Glu Asp Gln Arg Gln Gly Ala Glu Pro Arg Lys Asn Phe Val Lys Pro Asn Glu Thr Lys Thr Tyr Phe Trp Lys Val Gln His His Met Ala Pro Thr Lys Asp Glu Phe Asp Cys Lys Ala Trp Ala Tyr Phe Ser Asp Val Asp Leu Glu Lys Asp Val His Ser Gly Leu Ile Gly Pro Leu Leu Val Cys His Thr Asn Thr Leu Asn Pro Ala His Gly Arg Gln Val Thr Val Gln Glu Phe Ala Leu Phe Phe Thr Ile Phe Asp Glu Thr Lys Ser Trp Tyr Phe Thr Glu Asn Met Glu Arg Asn Cys Arg Ala Pro Cys Asn Ile Gln Met Glu Asp Pro Thr Phe Lys Glu Asn Tyr Arg Phe His Ala Ile Asn Gly Tyr Ile Met Asp Thr Leu Pro Gly Leu Val Met Ala Gln Asp Gln Arg Ile Arg Trp Tyr Leu Leu Ser Met Gly Ser Asn Glu Asn Ile His Ser Ile His 1070 : Phe Ser Gly His Val Phe Thr Val Arg Lys Lys Glu Glu Tyr Lys Met Ala Leu Tyr Asn Leu Tyr Pro Gly Val Phe Glu Thr Val Glu Met Leu Pro Ser Lys Ala Gly Ile Trp Arg Val Glu Cys Leu Ile Gly Glu His Leu His Ala Gly Met Ser Thr Leu Phe Leu Val Tyr Ser Asn Lys Cys Gln Thr Pro Leu Gly Met Ala Ser Gly His Ile Arg Asp Phe Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Ala Pro Lys Leu Ala Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro Phe Ser Trp Ile Lys Val Asp Leu Leu Ala Pro Met Ile Ile His Gly Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser Gln Phe Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr Arg Gly Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Ile Ile Ala Arg Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg Met Glu Leu Met Gly Cys Asp Leu Asn Ser Cys Ser Met Pro Leu Gly Met Glu Ser Lys Ala Ile Ser Asp Ala Gln Ile Thr Ala Ser Ser Tyr Phe Thr Asn Met Phe Ala Thr Trp Ser Pro Ser Lys Ala Arg Leu His Leu Gln Gly Arg Ser Asn Ala Trp Arg Pro Gln Val Asn Asn Pro Lys Glu Trp Leu Gln Val Asp Phe Gln Lys Thr Met Lys Val Thr Gly Val Thr Thr Gln Gly Val Lys Ser Leu Leu Thr Ser Met Tyr Val Lys Glu Phe Leu 1365 1370 Ile Ser Ser Ser Gln Asp Gly His Gln Trp Thr Leu Phe Phe Gln Asn



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Leu Asn Glu His Leu Gly Leu Leu Gly Pro Tyr Ile Arg Ala Glu Val Glu Asp Asn Ile Met Val Thr Phe Arg Asn Gln Ala Ser Arg Pro Tyr Ser Phe Tyr Ser Ser Leu Ile Ser Tyr Glu Glu Asp Gln Arg Gln Gly Ala Glu Pro Arg Lys Asn Phe Val Lys Pro Asn Glu Thr Lys Thr Tyr Phe Trp Lys Val Gln His His Met Ala Pro Thr Lys Asp Glu Phe Asp Cys Lys Ala Trp Ala Tyr Phe Ser Asp Val Asp Leu Glu Lys Asp Val His Ser Gly Leu Ile Gly Pro Leu Leu Val Cys His Thr Asn Thr Leu Asn Pro Ala His Gly Arg Gln Val Thr Val Gln Glu Phe Ala Leu Phe Phe Thr Ile Phe Asp Glu Thr Lys Ser Trp Tyr Phe Thr Glu Asn Met Glu Arg Asn Cys Arg Ala Pro Cys Asn Ile Gln Met Glu Asp Pro Thr Phe Lys Glu Asn Tyr Arg Phe His Ala Ile Asn Gly Tyr Ile Met Asp Thr Leu Pro Gly Leu Val Met Ala Gln Asp Gln Arg Ile Arg Trp Tyr Leu Leu Ser Met Gly Ser Asn Glu Asn Ile His Ser Ile His Phe Ser Gly His Val Phe Thr Val Arg Lys Lys Glu Glu Tyr Lys Met Ala Leu Tyr Asn Leu Tyr Pro Gly Val Phe Glu Thr Val Glu Met Leu Pro Ser Lys Ala Gly Ile Trp Arg Val Glu Cys Leu Ile Gly Glu His Leu His Ala Gly Met Ser Thr Leu Phe Leu Val Tyr Ser Asn Lys Cys Gln Thr Pro Leu Gly Met Ala Ser Gly His Ile Arg Asp Phe Gln Ile Thr Ala Ser Gly Gln Tyr Gly Gln Trp Ala Pro Lys Leu Ala Arg Leu His Tyr Ser Gly Ser Ile Asn Ala Trp Ser Thr Lys Glu Pro Phe Ser Trp Ile Lys Val Asp Leu Leu Ala Pro Met Ile Ile His Gly Ile Lys Thr Gln Gly Ala Arg Gln Lys Phe Ser Ser Leu Tyr Ile Ser Gln Phe Ile Ile Met Tyr Ser Leu Asp Gly Lys Lys Trp Gln Thr Tyr Arg Gly Asn Ser Thr Gly Thr Leu Met Val Phe Phe Gly Asn Val Asp Ser Ser Gly Ile Lys His Asn Ile Phe Asn Pro Pro Ile Ile Ala Arg Tyr Ile Arg Leu His Pro Thr His Tyr Ser Ile Arg Ser Thr Leu Arg Met Glu Leu Met Gly Cys Asp Leu Asn Ser Cys Ser Met Pro Leu Gly Met Glu Ser Lys Ala Ile Ser Asp Ala Gln Ile Thr Ala Ser Ser Tyr Phe Thr Asn Met Phe Ala Thr Trp Ser Pro Ser Lys Ala Arg Leu His Leu Gln Gly Arg Ser Asn Ala Trp Arg Pro Gln Val Asn Asn Pro Lys Glu Trp Leu Gln Val Asp Phe Gln Lys Thr Met Lys Val Thr Gly Val Thr Thr Gln Gly Val Lys Ser Leu Leu Thr Ser Met Tyr Val Lys Glu Phe Leu Ile Ser